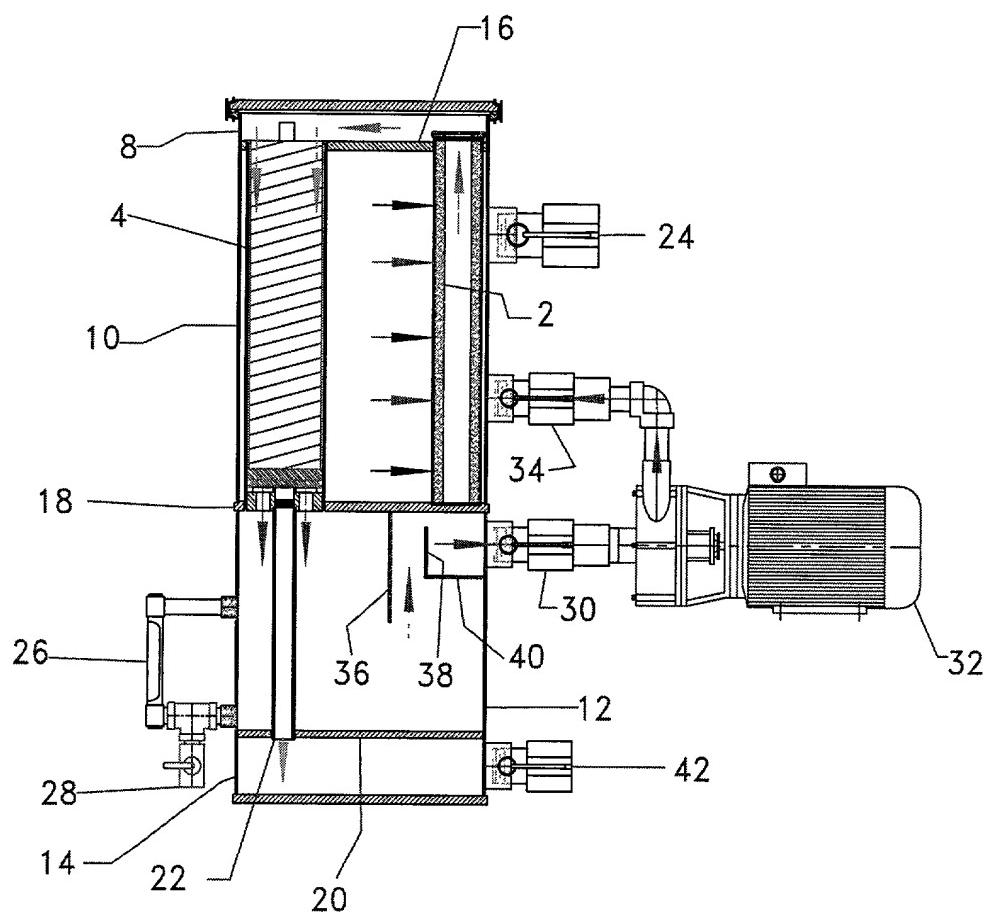


TOP SECTIONAL VIEW



CROSS SECTIONAL VIEW

FIG. 1

SPIRAL WOUND DESIGN CONCEPT



**Filtration Solutions, Inc.**

DATE	SIZE	PROJECT	DRAWING NUMBER	REV.
10/26/01	A	8004	A99-089-SA-01/A	B

SCALE - DRWN BY: THM

APPRVD BY: GY

4 | 3 | 2 | 1

↓ SYM REVISION DATE BY

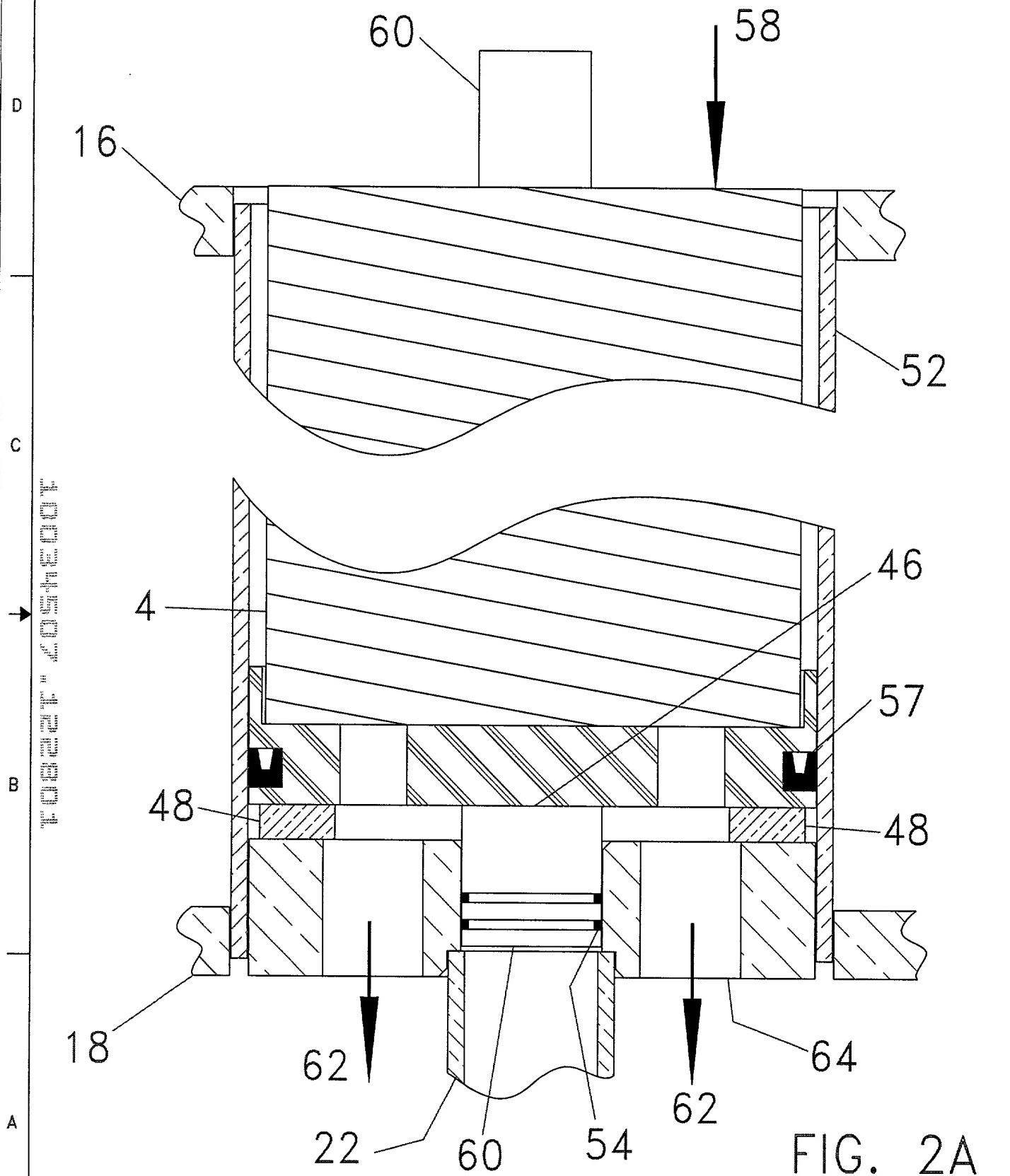


FIG. 2A

SPIRAL WOUND DESIGN CONCEPT



**Filtration Solutions, Inc.**

SCALE - DRWN BY: THM

APPRVD BY: GY

DATE 10/26/01	SIZE A	PROJECT 8004	DRAWING NUMBER A99-089-SA-01/B	REV. B
------------------	-----------	-----------------	-----------------------------------	-----------

4 | 3 | 2 | 1 ↑

4 | 3 | 2 | 1

SYM REVISION DATE BY

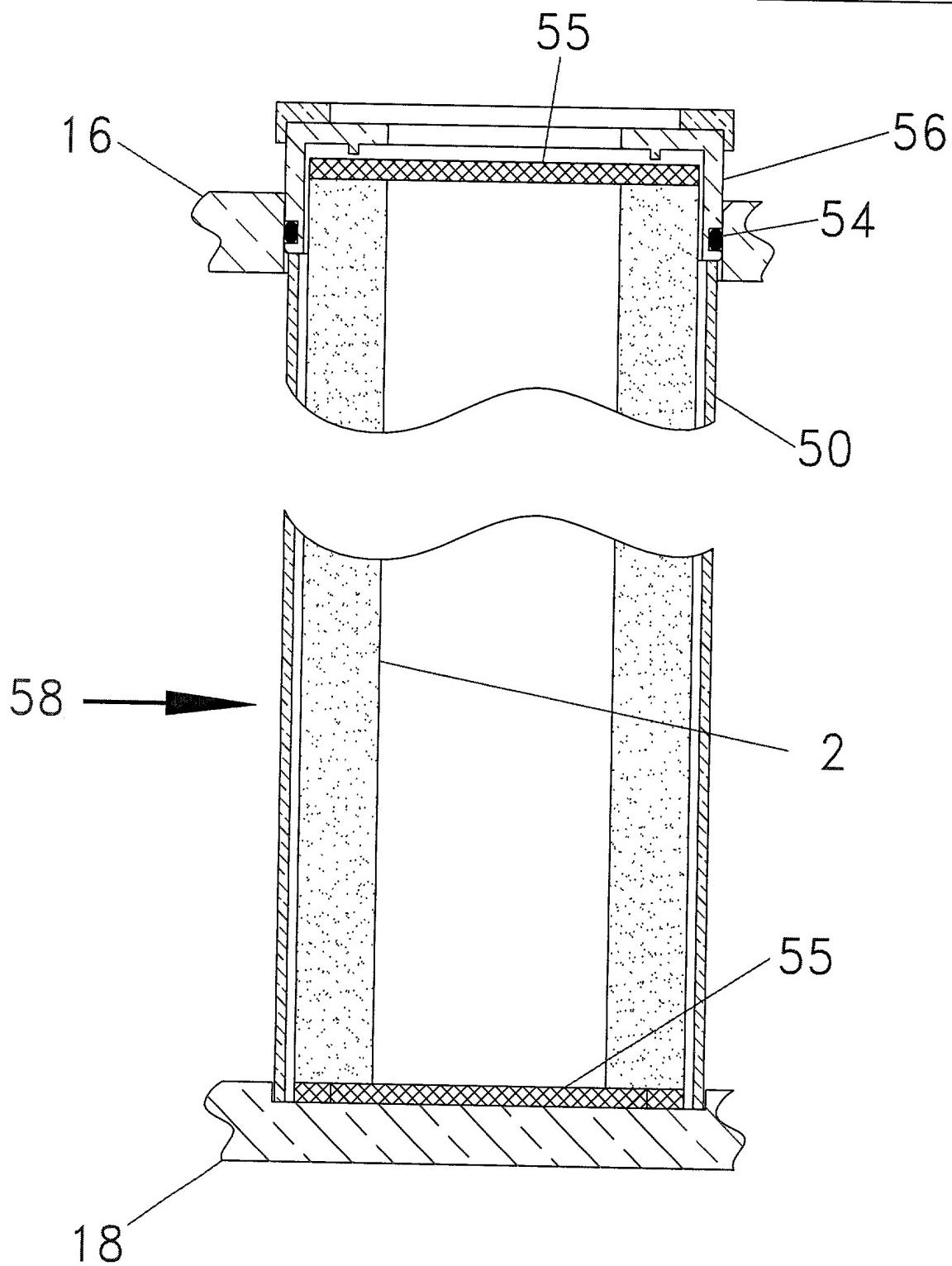


FIG. 2B

SPIRAL WOUND DESIGN CONCEPT

**Filtration Solutions, Inc.**

SCALE -	DRWN BY: THM	APPRVD BY: GY	DATE 10/26/01	SIZE A	PROJECT 8004	DRAWING NUMBER A99-089-SA-01/C	REV. B
---------	--------------	---------------	------------------	-----------	-----------------	-----------------------------------	-----------

4 | 3 | 2 | 1

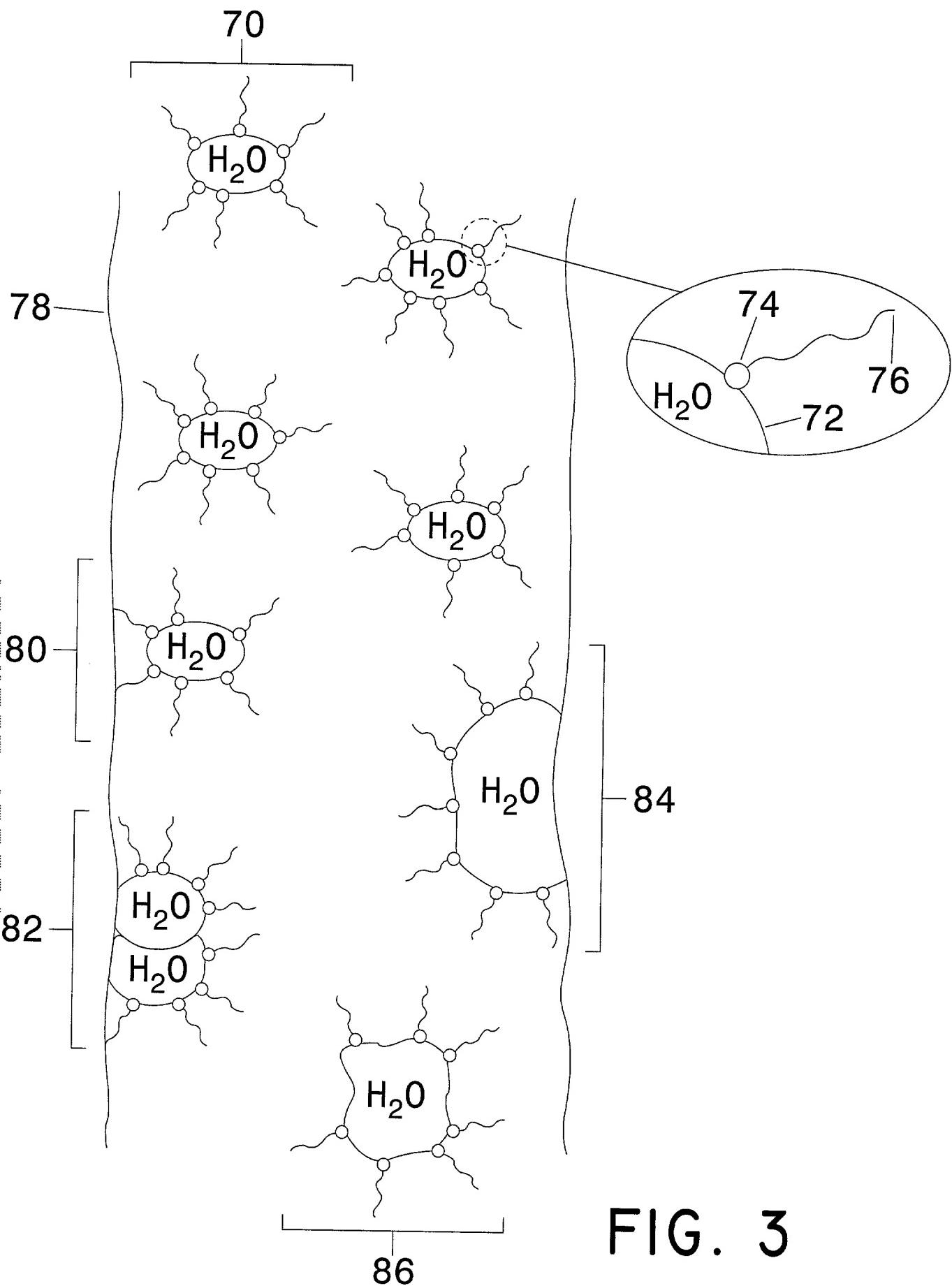


FIG. 3

CROSS-FLOW

4 | 3 | 2 | 1

SYM REVISION DATE BY

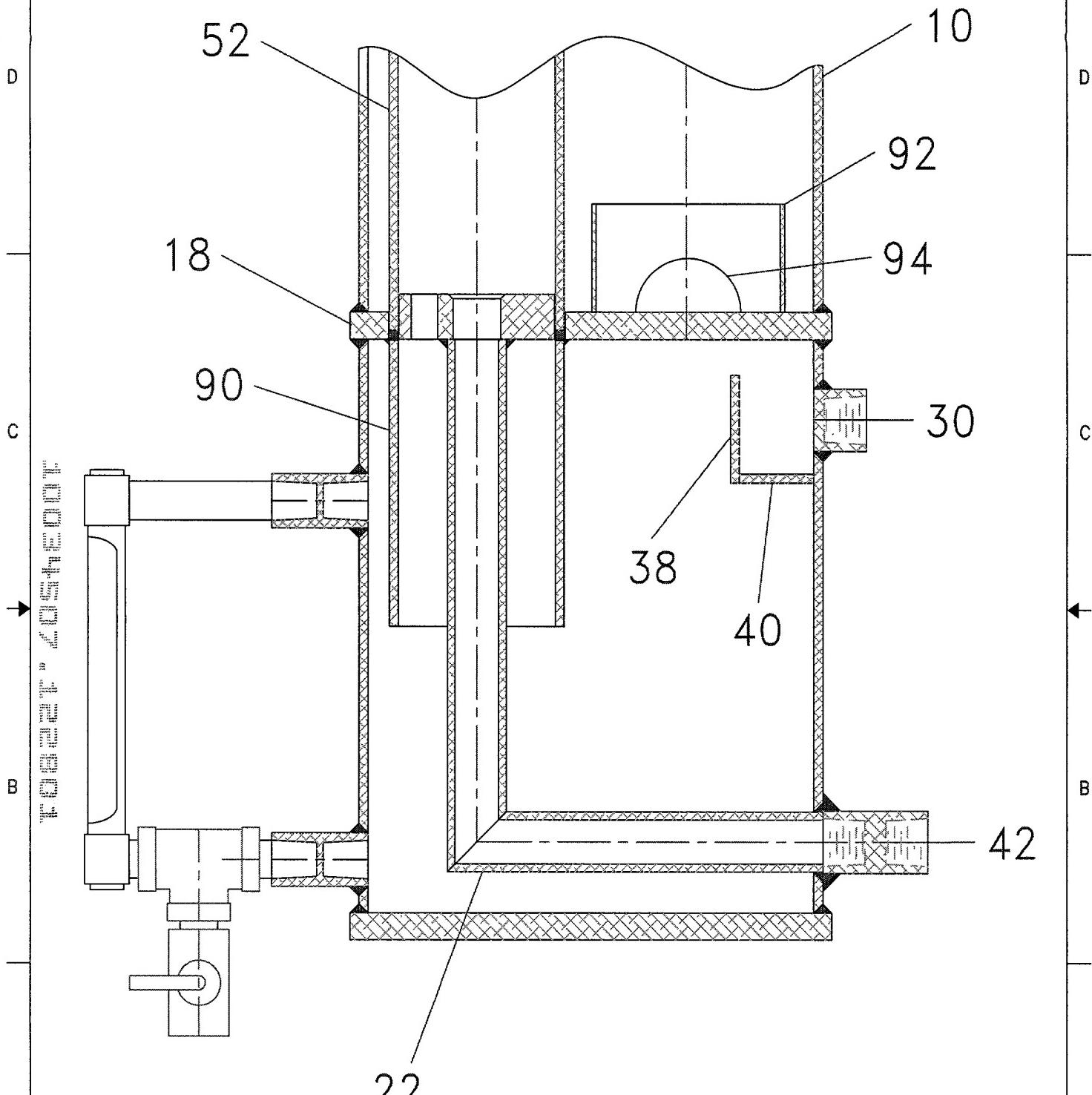


FIG. 4

SPIRAL WOUND DESIGN CONCEPT

SCALE - DRWN BY: THM

APPRVD BY: GY



**Filtration Solutions, Inc.**

DATE 10/26/01	SIZE A	PROJECT 8004	DRAWING NUMBER A99-089-SA-01/E	REV. B
------------------	-----------	-----------------	-----------------------------------	-----------

4 | 3 | 2 | 1

4 | 3 | 2 | 1

SYM | REVISION | DATE | BY

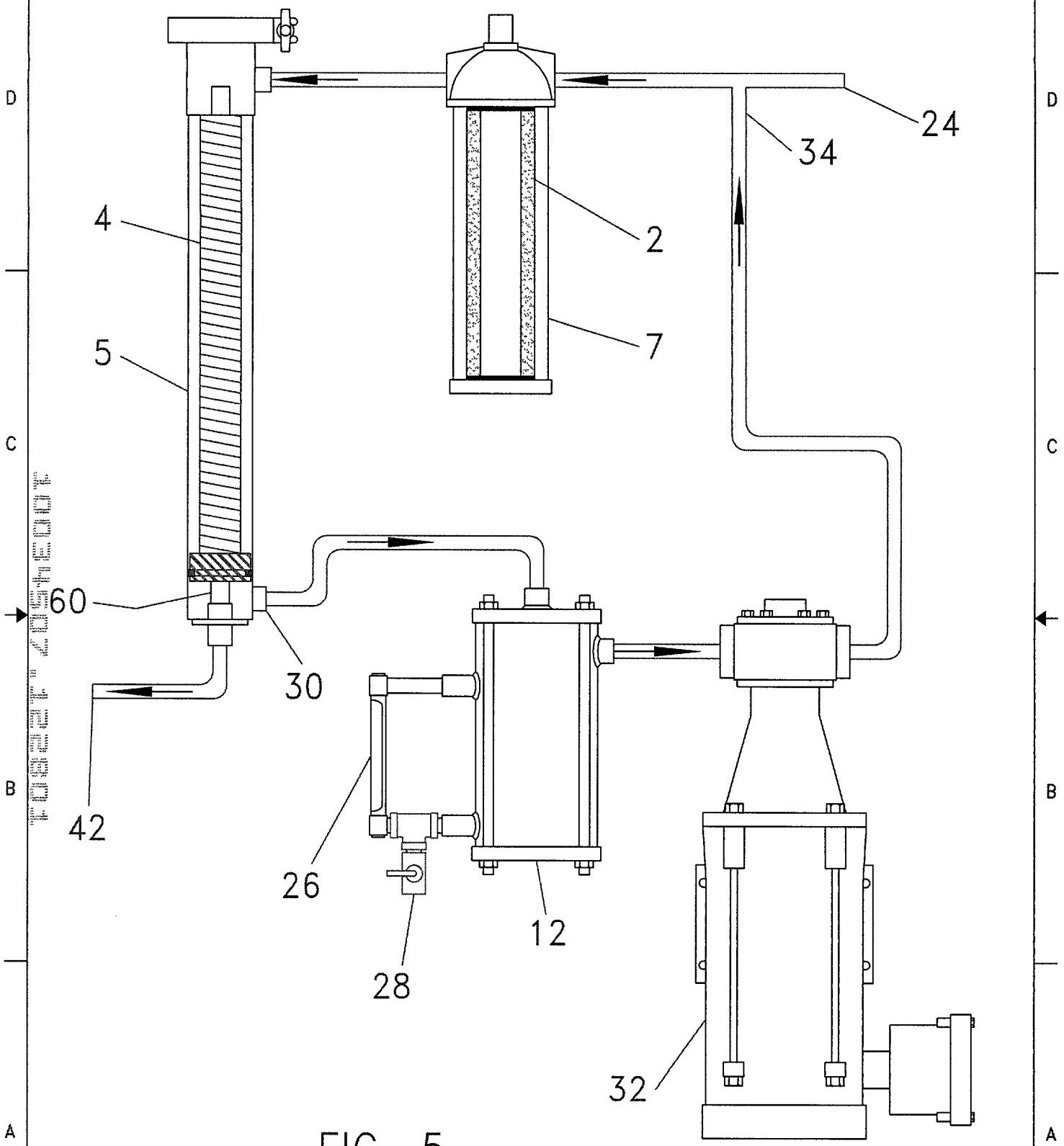


FIG. 5

SPIRAL WOUND DESIGN CONCEPT



**Filtration Solutions, Inc.**

SCALE - DRWN BY: THM

APPRVD BY: GY

DATE 10/26/01	SIZE A	PROJECT 8004	DRAWING NUMBER A99-089-SA-01/F	REV. B
------------------	-----------	-----------------	-----------------------------------	-----------

4 | 3 | 2 | 1